Ejercicio15sec.2(ejercicios de repaso)grossman2ed.

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calcular el area de un trianglo cuyos vertices son $(-3,5),(5,2),(6,2)$.

$$\frac{1}{2}\left|\det\left(\left|\begin{array}{ccc}-3 & 5 & 1\\ 5 & 2 & 1\\ 6 & 2 & 1\end{array}\right|\right)\right|$$

Rsta//

```
----------------------------------------------------------------------
| Sage Version 3.4, Release Date: 2009-03-11                         |
| Type notebook() for the GUI, and license() for information.        |
----------------------------------------------------------------------
Sage Version 3.4, Release Date: 2009-03-11
```

```
sage] A=matrix(QQ,[[-3,5,1],[5,2,1],[6,2,1]])
sage] A
```

$$\left(\begin{array}{rrr}-3 & 5 & 1\\ 5 & 2 & 1\\ 6 & 2 & 1\end{array}\right)$$

```
sage] A.determinant()
```

3

```
sage] (1/2)*3
```

$\frac{3}{2}$

```
sage]
```

el área de un triangulo es de $\frac{3}{2}$.